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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/789,938	02/27/2004	Lili Yang	CALTE.008CP1	8163		
20995	7590 08/09/2006		EXAM	EXAMINER		
KNOBBE MARTENS OLSON & BEAR LLP			LI, QIAN	LI, QIAN JANICE		
2040 MAIN S FOURTEENT		ART UNIT	PAPER NUMBER			
IRVINE, CA	92614		1633			
			DATE MAILED: 08/09/2000	6		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary		Applicat	Application No.		Applicant(s)			
		10/789,	938	YANG ET AL.				
		Examine	er	Art Unit				
		Q. Janic	e Li, M.D.	1633	·			
Period 1	The MAILING DATE of this communic or Reply	cation appears on th	ne cover sheet w	ith the correspondence a	ddress			
WHI - Ext afte - If N - Fai Any	HORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MARTHE M	AILING DATE OF T of 37 CFR 1.136(a). In no e inication. utory period will apply and vill, by statute, cause the ap	'HIS COMMUNI Ivent, however, may a l will expire SIX (6) MON oplication to become Al	CATION. reply be timely filed ITHS from the mailing date of this BANDONED (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) filed	on 27 February 2	004					
2a)[	•	b)⊠ This action is						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
ت ر	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposi	tion of Claims	a and a mana	,,	,				
· _		nlication						
4)🖂	Claim(s) <u>1-42</u> is/are pending in the application.							
5)□	4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.							
· —	'	•						
6) <u></u>								
7)∐	Claim(s) is/are objected to.							
0)[2]	Claim(s) <u>1-42</u> are subject to restriction	n and/or election re	equirement.					
Applica	tion Papers							
9)[	The specification is objected to by the	Examiner.						
10)	The drawing(s) filed on is/are:	a) accepted or b	) objected to	by the Examiner.				
	Applicant may not request that any object	ion to the drawing(s)	be held in abeyar	nce. See 37 CFR 1.85(a).	·			
	Replacement drawing sheet(s) including t				FR 1.121(d).			
11)[	The oath or declaration is objected to							
Priority	under 35 U.S.C. § 119							
12)	Acknowledgment is made of a claim for	or foreign priority u	nder 35 U.S.C. §	119(a)-(d) or (f).				
a	☐ All b)☐ Some * c)☐ None of:							
	1. Certified copies of the priority d	ocuments have be	en received.					
	2. Certified copies of the priority d			pplication No				
	3. Copies of the certified copies of				l Stage			
	application from the Internation	· · · · ·	•		· ·			
*	See the attached detailed Office action	for a list of the cer	tified copies not	received.				
			·					
Attachmei	` '							
	ce of References Cited (PTO-892)	0.040	4) Interview S	Summary (PTO-413)				
	ce of Draftsperson's Patent Drawing Review (PT mation Disclosure Statement(s) (PTO-1449 or P			s)/Mail Date nformal Patent Application (PT	O-152)			
	er No(s)/Mail Date	. 5.55.55	6)  Other:		· - <b>-</b> /			
					•			

## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S. C. 121:
  - I. Claims 1-18 are drawn to a method of producing a population of antigenspecific immune cells. Classified in class 424, subclass 93.21.
  - II. Claims 19-33 are drawn to a method for treating cancer in a patient.Classified in class 424, subclass 93.21.
  - III. Claims 34-36 are drawn to a method of generating a T cell having specificity for a cancer cell. Classified in class 435, subclass 455.
  - IV. Claims 37-42 are drawn to a T cell that expresses a recombinant T cell receptor. Classified in class 435, subclass 325.
- 2. The inventions are distinct, each from the other because of the following reasons.

Inventions II and I are distinct inventions. Inventions are distinct if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, the different methods have different functions, namely producing an immune cell or treating a cancer. The different methods have different criteria to measure the effects or objectives, have different method steps, different modes of operation, and require distinct technical considerations.

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Inventions III and I are distinct inventions. Inventions are distinct if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case, group III does not require the step of administering the HSCs into a mammal, for example. The different methods have different method steps, different modes of operation, and require distinct technical considerations.

Inventions I or III, and IV could be related as product and process of use. The inventions can be shown to be distinct if either or both of the following can be shown: (1) the process for using the product as claimed can be practiced with another materially different product or (2) the product as claimed can be used in a materially different process of using that product (MPEP § 806.05(h)). In the instant case, the T cells of group IV could be made either by the method of group I or by another materially different method of group III.

The differences of the Inventions I-IV are further underscored by their divergent classification and independent search criteria.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art because of their recognized divergent subject matter and different search criteria, it would impose an undue burden to the Office if all the groups are examined together, thus, restriction for examination purposes as indicated is proper.

The examiner has required restriction between product and process claims. Where applicant elects claims directed to the product, and the product

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claims are subsequently found allowable, withdrawn process claims that depend from or otherwise require all the limitations of the allowable product claim will be considered for rejoinder. All claims directed a nonelected process invention must require all the limitations of an allowable product claim for that process invention to be rejoined.

In the event of rejoinder, the requirement for restriction between the product claims and the rejoined process claims will be withdrawn, and the rejoined process claims will be fully examined for patentability in accordance with 37 CFR 1.104. Thus, to be allowable, the rejoined claims must meet all criteria for patentability including the requirements of 35 U.S.C. 101, 102, 103 and 112. Until all claims to the elected product are found allowable, an otherwise proper restriction requirement between product claims and process claims may be maintained. Withdrawn process claims that are not commensurate in scope with an allowable product claim will not be rejoined. See MPEP § 821.04(b).

Additionally, in order to retain the right to rejoinder in accordance with the above policy, applicant is advised that the process claims should be amended during prosecution to require the limitations of the product claims. Failure to do so may result in a loss of the right to rejoinder. Further, note that the prohibition against double patenting rejections of 35 U.S.C. 121 does not apply where the restriction requirement is withdrawn by the examiner before the patent issues. See MPEP § 804.01.

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3. This application contains claims directed to the following patentably distinct species of the claimed invention. Upon election of an invention for examination in this application, further election of a species is necessary.

Upon election of group I, further election of a species defined as a combination of the following factors:

- a. The type of immune cells produced, such as a dendritic cell or a B cell:
- b. A particular antigen-specific polynucleotide and a particular immune enhancing gene product further comprised by the polynucleotide such as CD25;
  - c. A specific type of virus used for transfection.

Upon election of group II, further election of a species defined as a combination of the following factors:

- a. The type of tumor to be treated such as melanoma;
- b. A particular antigen to which a T cell receptor binds, such as mart-1;
- c. A specific type of virus used for transfection;

Upon election of groups III or IV, further election of a species defined as a combination of the following factors:

- a. A particular antigen to which a T cell receptor binds, such as an HIV antigen;
  - b. A specific gene that enhances T cell activity.

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species from each of a, b, and c, for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, claims 1-42 are generic, i.e. no single claim is drawn to a particular species.

Each of the listed species is structurally and/or functionally distinct, and not overlapped in structure search. Thus, a search and examination of anything more than one of such together for patentablility would be unduly burdensome to the examiner.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added.

An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the

inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

4. Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143), and a listing of all claims readable thereon, including any claims subsequently added.

Applicant is advised that where a single claim encompasses more than one invention as defined above, upon election of an invention for examination, said claim will only be examined to the extent that it reads upon the elected invention.

- 5. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **Q. Janice Li** whose telephone number is 571-272-0730. The examiner can normally be reached on 9:30 am 7 p.m., Monday through Friday, except every other Wednesday.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, **Dave T. Nguyen** can be reached on 571-272-0731. The **fax** numbers for the organization where this application or proceeding is assigned are **571-273-8300**.

Any inquiry of formal matters can be directed to the patent analyst, **William Phillips**, whose telephone number is (571) 272-0548.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to (571) 272-0547.

Patent applicants with problems or questions regarding electronic images that can be viewed in the Patent Application Information Retrieval system (PAIR) can now contact the USPTO's Patent Electronic Business Center (Patent EBC) for assistance. Representatives are available to answer your questions daily from 6 am to midnight (EST). The toll free number is (866) 217-9197. When calling please have your application serial or patent number, the type of document you are having an image problem with, the number of pages and the specific nature of the problem. The Patent Electronic Business Center will notify applicants of the resolution of the problem within 5-7 business days. Applicants can also check PAIR to confirm that the problem has been corrected. The USPTO's Patent Electronic Business Center is a complete service center supporting all patent business on the Internet. The USPTO's PAIR system provides Internet-based access to patent application status and history information. It also enables applicants to view the scanned images of their own application file folder(s) as well as general patent information available to the public.

For all other customer support, please call the USPTO Call Center (UCC)

at 800-786-9199.

Q. JANICE LI, M.D. PRIMARY EXAMINER

Q. Janice Li, M.D.

O JANICE LI, M.D.

TY EXAMINER

Primary Examiner

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*QJL* August 7, 2006